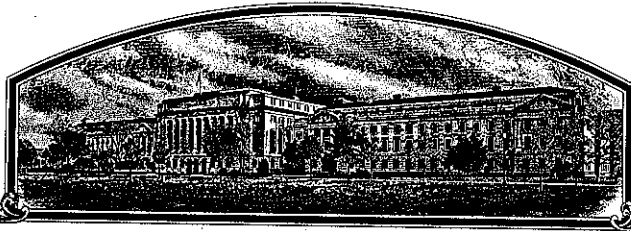


No.

9500312



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hybri Tech US, a Monsanto Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE IDENTIFIED BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF SEEDS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

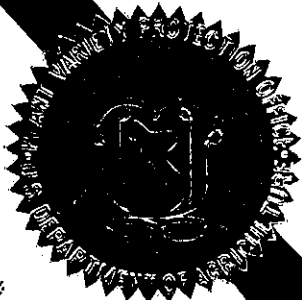
'Lars'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of January in the year of our Lord one thousand nine hundred and ninety-nine.

Attest:

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(INSTRUCTIONS ON REVERSE)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.

3. VARIETY NAME

Agripro Seeds, Inc. {HybriTech US, a Monsanto Company
Cgm 6/2/98

N90-0671

LARS

4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)

5. PHONE (include area code)

6700 Antioch

P.O. Box 2962

Shawnee Mission, Kansas 66201-1362

913-384-4940

FOR OFFICIAL USE ONLY

PVPO NUMBER

9500312

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Date

Sept. 7, 1995

Time

☐ A.M.☐ P.M.

Filing and Examination Fee:

\$ 2450.00

Date

Sept. 7, 1995

Certificate Fee:

\$ 800.00

Date

Dec 22, 1997

6. GENUS AND SPECIES NAME

Triticum aestivum

7. FAMILY NAME (Botanical)

Gramineae

8. CROP KIND NAME (Common Name)

9. DATE OF DETERMINATION

July 1992

Hard Red Spring Wheat Wheat, common

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

Delaware

12. DATE OF INCORPORATION

June 1994

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Rob Bruns
806 N. Second Street
P.O. Box 30
Berthoud, Colorado 80513
303-532-3721Joe Smith
Berthoud, ColoradoChristine Bruns
Berthoud, ColoradoMark J. Messmer
HybriTech US
5912 North Meridian
Wichita KS 67204Cgm 6/2/98
PHONE (include area code): 316-755-7707

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety
 b. ☒ Exhibit B, Novelty Statement
 c. ☒ Exhibit C, Objective Description of Variety
 d. ☒ Exhibit D, Additional Description of Variety
 e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership
 f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____
 g. ☒ Filing and Examination Fee (\$2,325) made payable to "Treasurer of the United States"

Fax: 316-755-0072

(email: Mark.J. Messmer@Monsanto.com)

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act) ☒ YES (If "YES," answer items 16 and 17 below) ☐ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____).
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ YES (If "YES," GIVE NAMES OF COUNTRIES AND DATES) _____
☒ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT [Owner(s)]

CAPACITY OR TITLE

DATE

Research Manager

7-27-95

SIGNATURE OF APPLICANT [Owner(s)]

CAPACITY OR TITLE

DATE

Exhibit A. Origin and Breeding History of Lars

Lars originated from the cross of HS85-0902 / N86-0111 which was made at Berthoud, CO in the fall of 1987 and given the cross designation C88-0099. At the time of the cross, HS85-0902 was a line from the AgriPro Spring Wheat breeding program, which itself derived from the cross of HS82-0448 / Angus. HS85-0902 was subsequently released to AgriPro Associate Growers in 1990 under the name Bergen. Bergen's background includes a significant contribution from University of Minnesota breeding lines and the variety Era. Lars's other parent (N86-0111) also has considerable background from University of Minnesota including the variety Era. (See Pedigree Diagram below).

The cross C88-0099 produced 25 F₁ seeds. The F₁ generation was grown in the greenhouse in Berthoud, CO during the winter of 1987-88, harvested and planted as an F₂ population at Climax, MN in the spring of 1988. Selection criteria at this stage included; short to intermediate height, and resistance to leaf rust, stem rust, and other foliar diseases such as Tan Spot and Septoria Leaf Blight. Ninety-two (92) single head selections were made from this F₂ population at Climax.

Single Seed Descent was used to advance these selections through the F₃ and F₄ generations in the Berthoud greenhouse during the fall and winter of 1988-89. Sixty (60) F₄ derived F₅ headrows from the C88-0099 cross were planted in 1989 at Borup, MN with selection criteria essentially the same as in the F₂ generation although intensity of diseases were much less this year. A total of seventeen (17) rows were selected from C88-0099 at this stage, with each row being harvested and bulked individually. The F₅ selection numbered 4874 was increased as an F₆ plot in a counter season nursery in New Zealand during 1989-1990 and subsequently entered into preliminary yield trials in the spring of 1990 under the line designation 'N90-0671'.

Lars (N90-0671) was tested in AgriPro nurseries in the Red River Valley from 1990-1994. Lars has also been tested in the Hard Red Spring Wheat Uniform Regional Nurseries in 1993 and 1994 and was entered in official state tests in North Dakota, South Dakota, and Minnesota during 1994.

In 1992, ninety-six (96) F₈ derived F₉ headrows were grown at Berthoud, CO and five rows were discarded for being slightly taller. The remaining rows were bulked and used to plant a 1.5 acre initial seed increase in 1993 which produced 4,915 pounds of breeder seed. An additional ninety-two (92) F₁₀ head rows were planted in 1993, none of which were discarded, to serve as backup seed stock.

Lars has been uniform and stable since 1993. Less than 0.5% of the plants were rogued from the initial seed increase field in 1993. Approximately 85% of the rogued variant plants consisted of slightly taller (5 to 10 centimeters) wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

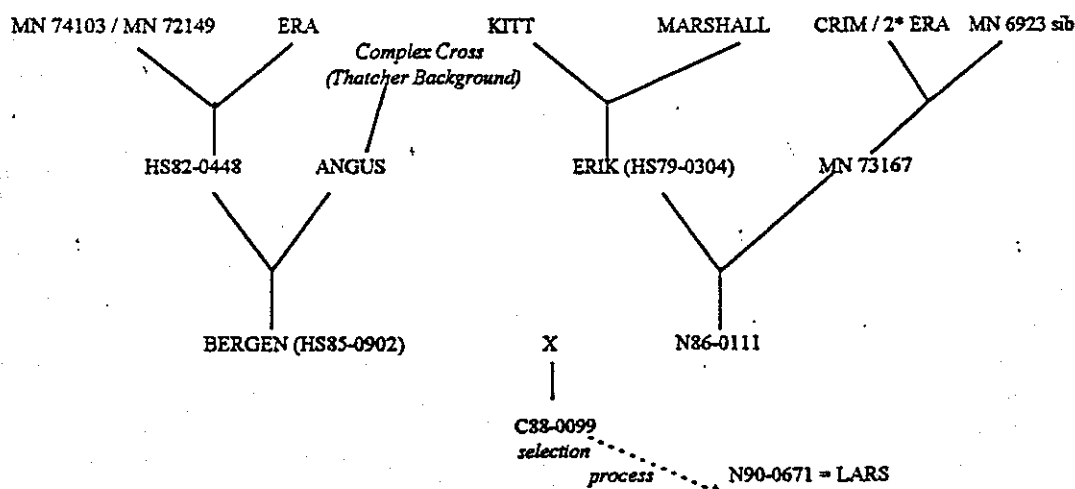


EXHIBIT B.**STATEMENT OF DISTINCTNESS**

Lars is most similar to the hard red spring wheats 'Bergen' and 'Hamer'. However, it can be easily distinguished from both of these varieties by the following morphological characteristics:

- Lars has a long acuminate beak. Bergen has a short acuminate beak, (see statistical data following pages).
- Lars is a shorter height variety than Hamer, (see Agripro Hard Red Spring Wheat Trial Summary 1995, page 4.)
- Lars expresses seedling anthocyanin, (Berthoud, Colorado 1992 thru 1995). Hamer does not express seedling anthocyanin, (Berthoud, Colorado 1992 thru 1995).
- Lars has a midwide seed crease width due to its having slightly angular cheeks. Hamer has a narrow seed crease width due to its having a rounded seed cheek shape.
- Lars has a middeep seed crease depth due to its having angular cheeks. Hamer has a shallow seed crease depth due to its having a rounded seed cheek shape.

Agripro Seeds Inc.

Statistical Summary

9500312

11/20/95

t-Test: Two-Sample Assuming Equal Variances (1)		
Beak Length (mm)	For year: 1993	
	Lars	Bergen
Mean	6.672	2.412
Variance	3.5071	0.284433333
Observations	25	25
Pooled Variance	1.895766667	
Hypothesized Mean Difference	0	
df	48	
t Stat	10.93886252	
P(T<=t) one-tail	6.18602E-15	
t Critical one-tail	1.677224191	
P(T<=t) two-tail	1.2372E-14	
t Critical two-tail	2.01063358	

t-Test: Two-Sample Assuming Unequal Variances (2)		
Beak Length (mm)	For year: 1993	
	Lars	Bergen
Mean	6.672	2.412
Variance	3.5071	0.284433333
Observations	25	25
Hypothesized Mean Difference	0	
df	28	
t Stat	10.93886252	
P(T<=t) one-tail	6.40278E-12	
t Critical one-tail	1.701130259	
P(T<=t) two-tail	1.28056E-11	
t Critical two-tail	2.048409442	

(1) Steel, R.G.D., and J.H. Torrie. 1960. Comparisons Involving Two Sample Means. p. 86-121. In Principles and Procedures of statistics. McGraw-Hill Book Co. Inc., New York.

(2) Steel, R.G.D., and J.H. Torrie. 1960. Independent Samples and Unequal Variances. p. 106. In Principles and Procedures of statistics. McGraw-Hill Book Co. Inc., New York.

9500312

Agripro Seeds Inc.
Statistical Summary
11/20/95

Raw Data Summary

Beak Length (mm)

1993

number of observations:	Raw data:	
	Lars	Bergen
1	4.6	1.7
2	4.9	1.9
3	5.0	1.9
4	5.0	1.9
5	5.0	1.9
6	5.4	2.0
7	5.4	2.0
8	5.5	2.0
9	5.6	2.0
10	5.7	2.1
11	6.0	2.1
12	6.0	2.2
13	6.0	2.3
14	6.4	2.3
15	6.4	2.4
16	6.5	2.6
17	7.0	2.6
18	7.0	2.6
19	7.3	2.8
20	7.5	2.9
21	7.6	2.9
22	9.0	3.0
23	9.0	3.0
24	11.0	3.4
25	12.0	3.8

Agripro Seeds Inc.

Statistical Summary

4500312

11/20/95

t-Test: Two-Sample Assuming Equal Variances (1)		
Beak Length (mm)		For year: 1994
	Lars	Bergen
<i>Mean</i>	7.74	2.592
<i>Variance</i>	2.425833333	0.149933333
<i>Observations</i>	25	25
<i>Pooled Variance</i>	1.287883333	
<i>Hypothesized Mean Difference</i>	0	
<i>df</i>	48	
<i>t Stat</i>	16.03818738	
<i>P(T<=t) one-tail</i>	3.25488E-21	
<i>t Critical one-tail</i>	1.677224191	
<i>P(T<=t) two-tail</i>	6.50976E-21	
<i>t Critical two-tail</i>	2.01063358	

t-Test: Two-Sample Assuming Unequal Variances (2)		
Beak Length (mm)		For year: 1994
	Lars	Bergen
<i>Mean</i>	7.74	2.592
<i>Variance</i>	2.425833333	0.149933333
<i>Observations</i>	25	25
<i>Hypothesized Mean Difference</i>	0	
<i>df</i>	27	
<i>t Stat</i>	16.03818738	
<i>P(T<=t) one-tail</i>	1.25987E-15	
<i>t Critical one-tail</i>	1.703288035	
<i>P(T<=t) two-tail</i>	2.51974E-15	
<i>t Critical two-tail</i>	2.051829142	

(1) Steel, R.G.D., and J.H. Torrie. 1960. Comparisons Involving Two Sample Means. p. 86-121. In Principles and Procedures of statistics. McGraw-Hill Book Co. Inc., New York.

(2) Steel, R.G.D., and J.H. Torrie. 1960. Independent Samples and Unequal Variances. p. 106. In Principles and Procedures of statistics. McGraw-Hill Book Co. Inc., New York.

Agripro Seeds Inc.

Statistical Summary

9500312

11/20/95

Raw Data Summary

Beak Length (mm)

1994

number of observations:	Raw data:	
	Lars	Bergen
1	4.9	2.1
2	5.5	2.1
3	5.7	2.2
4	6.4	2.2
5	6.7	2.2
6	6.8	2.3
7	6.8	2.3
8	7.0	2.3
9	7.0	2.4
10	7.0	2.4
11	7.4	2.4
12	7.5	2.5
13	7.5	2.5
14	7.6	2.7
15	7.7	2.7
16	8.0	2.7
17	8.5	2.7
18	8.5	2.7
19	8.8	2.8
20	8.8	2.8
21	8.9	2.9
22	9.0	2.9
23	9.0	2.9
24	10.3	3.5
25	12.2	3.6

Hard Red Spring Wheat Trial Summary 1995.

[illegible]

*Height Data generated from the following locations: PR=Park River, North Dakota
BR=Berthoud, Colorado

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Agripro Seeds, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

6700 Antioch

P.O. Box 2962

Shawnee Mission, Kansas 66201-1362

FOR OFFICIAL USE ONLY

PVPO NUMBER

9500312

VARIETY NAME OR TEMPORARY
DESIGNATION

LARS

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., 0|8|9) or 0|9|) when number is either 99 or less or 9 or less.

1. KIND:

1| 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:

1| 1 = SPRING 2 = WINTER 3 = OTHER (Specify) _____ 2| 1 = SOFT 3 = OTHER (Specify)
2 = HARD

2| 1 = WHITE 2 = RED 3 = OTHER (Specify) _____

3. SEASON - NUMBER OF DAYS FROM _____ TO:

0|5|4 FIRST FLOWERING planting 0|5|9 LAST FLOWERING

4. MATURITY (50% Flowering):

0|1|1 NO. OF DAYS EARLIER THAN _____ 1 = ARTHUR 2 = SCOUT 3 = CHRIS

0|2 NO. OF DAYS LATER THAN _____ 7| 4 = LEMHI 5 = NUGAINES 6 = LEEDS

7=Bergen

PLANT HEIGHT (From soil level to top of head):

0|7|1 CM. HIGH

---|--- CM. TALLER THAN _____

0|7 CM. SHORTER THAN _____ 7| 1 = ARTHUR 2 = SCOUT 3 = CHRIS

4 = LEMHI 5 = NUGAINES 6 = LEEDS 7=Bergen

6. PLANT COLOR AT BOOTING (See reverse):

2| 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHUR COLOR:

1| 1 = YELLOW 2 = PURPLE

8. STEM:

1| Anthocyanin: 1 = ABSENT 2 = PRESENT

2| Waxy bloom: 1 = ABSENT 2 = PRESENT

2| Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

1| Internodes: 1 = HOLLOW 2 = SOLID

0|5 NO. OF NODES (Originating from node above ground)

1|8 CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:

1| Anthocyanin: 1 = ABSENT 2 = PRESENT

2| Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:

2| Flag leaf at booting stage: 1 = ERECT 2 = RECURVED
3 = OTHER (Specify): _____

2| Flag leaf: 1 = NOT TWISTED 2 = TWISTED

1| Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

2| Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

1|3 MM. LEAF WIDTH (First leaf below flag leaf)

2|3 CM. LEAF LENGTH (First leaf below flag leaf):

FORM GR-470-4 (REVERSE)

II. HEAD:

☐ 3 Density: 1 = LAX 2 = DENSE 3 = MIDDENSE ☐ 2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE
4 = OTHER (Specify) _____

☐ 4 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

☐ 2 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED
5 = BROWN 6 = BLACK 7 = OTHER (Specify): _____

☐ 7 ☐ 6 CM. LENGTH ☐ 1 ☐ 2 MM. WIDTH

12. GLUMES AT MATURITY:

☐ 2 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.) ☐ 2 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

☐ 2 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE ☐ 3 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

☐ 1 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

☐ 2 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

☐ 2 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

☐ 2 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL ☐ 2 Cleave: 1 = ROUNDED 2 = ANGULAR *majority of seed slightly angula
midlong to long

☐ 2-3 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG ☐ 1 Brush: 1 = NOT COLLARED 2 = COLLARED

☐ --- Phenol reaction (See instructions): 1 = IVORY, 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

☐ 3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) _____

☐ 5 ☐ 4 MM. LENGTH ☐ 3 ☐ 2 MM. WIDTH ☐ 3 ☐ 1 GM. PER 1000 SEEDS

17. SEED CREASE:

☐ 2 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMMI' ☐ 2 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMMI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3 = Moderately Susceptible 4 = Moderately Resistant

☐ 2 STEM RUST (Races) field races ☐ 2 LEAF RUST (Races) field races ☐ 0 STRIPE RUST (Races) ☐ 0 LOOSE SMUT

☐ 4 POWDERY MILDEW ☐ 0 BUNT ☐ 0 OTHER (Specify) _____

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3 = Moderately Susceptible 4 = Moderately Resistant

☐ 0 SAWFLY ☐ 0 APHID (Spec.) ☐ 0 GREEN BUG ☐ 0 CEREAL LEAF BEETLE

☐ 0 OTHER (Specify) _____ HESSIAN FLY RACES: ☐ 0 GP ☐ 0 A ☐ 0 B ☐ 0 C ☐ 0 D ☐ 0 E ☐ 0 F ☐ 0 G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Bergen	Seed size	Erik
Leaf size	Bergen	Seed shape	Erik
Leaf color	Bergen	Coleoptile elongation	Bergen
Leaf carriage	Bergen	Seedling pigmentation	Bergen

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L. T. Briggie and L. P. Reitz, 1961, Classification of Triticum Species and Their Varieties Grown in the United States, Technical Bulletin 1279, United States Department of Agriculture.

(b) F. E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 23 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

EXHIBIT D.

ADDITIONAL BOTANICAL DESCRIPTION OF LARS

Lars is a hard red spring wheat bred and developed by Agripro Seeds, Inc. Lars is a strong strawed, high yielding, short semidwarf wheat with medium maturity. Lars provides very good protection to leaf and stem rust and excellent resistance to tan spot. Milling properties are very good and baking characteristics are good.

Juvenile growth habit is semierect. Plant color at boot stage is green. Flag leaf at boot stage is recurved with a twisted flag leaf. Head shape is strap, awned and yellow at maturity. Glumes are glabrous, midlong and midwide with oblique shoulders and acuminate beaks. Seed shape is oval with slightly angular cheeks.

Lars is adapted to the entire hard red spring wheat region but is especially well adapted to the Red River Valley.

EXHIBIT E.**STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP**

The variety for which Plant Variety Protection is hereby sought was developed by Dr. Blake Cooper and Joe Smith employees of Agripro Seeds, Inc. By agreement between employees and Agripro Seeds, Inc., all rights to any invention, discovery, or developement made by the employee while employed by Agripro Seeds, Inc., were assigned to Agripro Seeds, Inc., with no rights of any kind pertaining to 'Lars' being retained by the employees.

1020

EXHIBIT F.**QUALITY AND AGRONOMIC DATA**

Quality Data page 1.

Agronomic Data pages 2. thru 8.

ACRIPRO WHEAT
HARD RED SPRING WHEAT
LARS

YEAR: 1994

FLOUR/WHEAT QUALITY

BAKING QUALITY

YEAR	LOC	TEST	—MIXOGRAM—										—CRUMB—												
			WHT	FIR	HRD	FIR	ASH	PK	PK	HT	TOL	ABS	MIX	LOAF	GR	TX	COL	ALL	OO						
		WT	PROT	PROT		YLD			min	N.U.	mm	R	%	R	min	R	cc	R	R	R	R	R	R	R	
		lb/Bu	14%mb	14%mb	R	%																			
LARS																									
93	PR	56.7	13.6	12.7	5	77	73.0	4	.520	4.50	5.0	1474	1	66.0	4	4.50	3	1100	4	3	3	3	3	39	
93	GF	51.7	13.2	12.1	6	73	71.5	4	.470	5.00	4.5	1324	3	65.0	5	5.00	5	970	7	3	3	3	3	51	
92	MW	57.7	12.8	11.6	6	110	75.0	3	.489	3.00	4.8	1416	3	61.0	5	3.00	1	700	5	3	4	3	3	46	
91	ST	61.8	14.5	13.6	4	86	74.3	3	.000	4.00	5.0	1434	3	65.0	4	4.00	1	1020	3	4	2	2	2	37	
90	TM	60.3	12.4	11.5	5	84	73.1	5	.000	4.50	4.5	1671	1	66.0	5	4.50	7	920	6	3	2	2	2	45	
AVERAGE		57.6	13.3	12.3	5.2	86	73.4	3.8	.493	4.20	4.8	1464	2.2	64.6	4.6	4.20	3.4	942	5.0	3.2	2.8	2.6	2.6	44	

RATINGS: 1-2=EXCELLENT 3-4=GOOD 5=ACCEPTABLE 6-7=QUESTIONABLE 8-9=UNACCEPTABLE